

# Mineral Industry Surveys

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## COPPER IN JUNE 2006

Average daily U.S. mine of copper in June 2006 was essentially unchanged from that in May, according to data compiled by the U.S. Geological Survey. While mine production for the first 6 months of 2006 was down by about 2% from that of the equivalent period of 2005, production for the second half of 2006 is expected to increase significantly above that for the second half of 2005, when strike activity at ASARCO Incorporated mines reduced domestic output. Annual production for 2006 is expected to total about 1.22 million metric tons (Mt), an increase of about 5% compared with production in 2005. Reported consumption of refined copper for the first 6 months of 2006 was up by about 2.5% from that of the equivalent period of 2005.

Copper smelter production fell sharply in June owing to a shutdown of ASARCO Incorporated's Hayden smelter in Arizona on June 17 following partial collapse of the roof of the building that houses Hayden's two anode furnaces. Though the furnaces were not damaged, the smelter remained closed for 5 weeks during cleanup and reinforcement of the overhead cranes. Reconstruction of the roof, however, was not expected until later in the year. Asarco reportedly was able to meet its cathode obligations from inventories during the shutdown (Barry, 2006).

According to preliminary data compiled by the International Copper Study Group (ICSG) (2006), the refined copper market in the first half of 2006 was nearly balanced, with a minimal production surplus of 13,000 metric tons (t). World refined

production totaled 7.36 Mt in the first half of 2006, an increase of 6% compared with that of the same period of 2005: Primary production was up by 5% and secondary production was up by 10%. Global mine output in the first half of 2006 (7.18 Mt) remained essentially unchanged from that of the same period of 2005. Mine production in the first half of 2006 fell short of expectations held at the beginning of the year owing to production disruptions from operational failures and labor unrest. On the demand side, world refined copper use increased by about 2.6% during the first half of 2006 compared with use in the first half of 2005. Increased use in the European Union-15 (EU-15) (15%) and Japan (7%) accounted for most of the growth, while use in the remainder of Europe (excluding the EU-15 countries) was essentially flat; use in the rest of Asia (excluding Japan) was down by 3.4%, mainly owing to an 8% decrease in Chinese apparent use; and use in North America grew by about 1.4%. Apparent use in China for the first half of 2006 may understate actual use, based on industry reports of a drawdown of unreported Government stocks.

### References Cited

- Barry, Sean, 2006, Asarco reopens copper smelter in Arizona following roof collapse: *American Metal Market*, v. 114, no. 29-4, July 27, p. 8.  
International Copper Study Group, 2006, Copper—Preliminary data for June 2006: Lisbon, Portugal, International Copper Study Group press release, September 13, 1 p.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2005 <sup>p</sup>	2006		
			May	June	January - June
Production:					
Primary:					
Mine, recoverable	(2)	1,140,000	103,000	99,000	585,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	654,000	61,500	65,100	366,000
Electrowon	(4)	554,000	45,600	43,700	262,000
Total	(4)	1,210,000	107,000	109,000	628,000
Secondary recoverable copper:					
Refineries	(5)	47,200	3,730	3,700	22,400
Ingot makers <sup>3</sup>	(5)	89,500	7,460	7,460	44,800
Brass and wire-rod mills	(5)	697,000	64,700	65,000	380,000
Foundries, etc. <sup>3</sup>	(5)	58,400	4,870	4,870	29,200
Smelter, total	(3)	523,000	59,300	43,300	313,000
Consumption:					
Apparent	(8)	2,390,000	217,000	NA	NA
Refined (reported)	(7)	2,270,000	195,000	197,000	1,150,000
Purchased copper-base scrap	(9)	1,130,000	102,000	103,000	603,000
Stocks at end of period:					
Total refined	(11)	65,900	87,300	76,600	XX
Blister, etc.	(11)	44,300	40,600	13,500	XX
Prices:					
U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	173.493	381.687	345.474	287.163
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	223	2	NA	NA
Refined	(14)	1,000,000	100,000	NA	NA
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	137,000	22,700	NA	NA
Refined	(15)	39,500	6,270	NA	NA

<sup>p</sup>Preliminary. NA Not available. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

<sup>2</sup>Numbers in parentheses refer to the significant tables where these data are located.

<sup>3</sup>Monthly data and 2005 cumulative data estimated based on 2004 monthly average.

<sup>4</sup>Source: Platts Metals Week.

<sup>5</sup>Source: U.S. Census Bureau.

<sup>6</sup>Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2005: <sup>p</sup>						
January - June	363,000 <sup>r</sup>	234,000 <sup>r</sup>	597,000 <sup>r</sup>	275,000	332,000 <sup>r</sup>	606,000 <sup>r</sup>
June	61,700	35,900	97,600	48,100	51,000	99,100
July	54,400	35,700	90,100	46,600	44,700	91,300 <sup>r</sup>
August	55,200	33,800	89,000	47,300	42,800	90,100 <sup>r</sup>
September	53,500	39,200	92,700	46,300	47,700	93,900 <sup>r</sup>
October	53,300	35,200	88,500	45,200	44,500	89,700 <sup>r</sup>
November	52,800	34,100	86,900	45,800 <sup>r</sup>	42,300	88,100 <sup>r</sup>
December	57,500	38,300	95,800	48,000 <sup>r</sup>	49,200	97,200 <sup>r</sup>
Year	690,000	450,000	1,140,000	554,000 <sup>r</sup>	603,000	1,160,000
2006:						
January	55,900	36,600	92,600	43,000	51,300	94,300
February	52,700	34,400	87,100	39,600	49,200	88,800
March	60,800	44,400	105,000	45,300	62,000 <sup>r</sup>	107,000
April	58,900	39,000	97,900	44,400	55,400	99,900
May	61,900	41,300	103,000	45,600	60,100	106,000
June	60,300	38,700	99,000	43,700	57,300	101,000
January - June	351,000	234,000	585,000	262,000	335,000	597,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes production from Alaska, Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES, BY SOURCE<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2005: <sup>p</sup>	
January - June	247,000
June	44,100
July	36,500
August	49,300
September	48,500
October	51,800
November	47,500
December	42,200
January - December	523,000
2006:	
January	54,100
February	54,600
March	53,000
April	49,200
May	59,300
June	43,300
January - June	313,000

<sup>p</sup>Preliminary.

<sup>1</sup>Includes blister, anode and copper from primary or secondary sources.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to total shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2005: <sup>p</sup>					
January - June	323,000	275,000	598,000	24,500	622,000 <sup>r</sup>
June	49,100	48,100	97,100 <sup>r</sup>	3,620	101,000
July	49,500	46,600	96,100 <sup>r</sup>	3,940	100,000
August	51,200	47,300	98,500	3,590	102,000
September	52,900	46,300	99,100 <sup>r</sup>	3,860	103,000
October	55,600	45,200	101,000	3,700	104,000 <sup>r</sup>
November	58,700	45,800 <sup>r</sup>	105,000	3,760	108,000 <sup>r</sup>
December	63,100	48,000 <sup>r</sup>	111,000	3,880	115,000
Year	654,000	554,000 <sup>r</sup>	1,210,000	47,200	1,260,000
2006:					
January	53,000	43,000	96,000	3,820	99,900
February	57,300	39,600	96,900	3,720	101,000
March	68,400	45,300	114,000	3,770	117,000
April	60,800	44,400	105,000	3,700	109,000
May	61,500	45,600	107,000	3,730	111,000
June	65,100	43,700	109,000	3,700	113,000
January - June	366,000	262,000	628,000	22,400	650,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2005: <sup>p</sup>									
January - June	8,010	16,500	12,800 <sup>r</sup>	31,900 <sup>r</sup>	332,000 <sup>r</sup>	17,000	12,200 <sup>r</sup>	17,000 <sup>r</sup>	447,000 <sup>r</sup>
June	1,340	2,280	2,140	5,320	54,500	2,380	2,040	2,830	72,900
July	1,340	2,610	2,140	5,320	51,000	2,840	2,040	2,830	70,100
August	1,340	2,260	2,140	5,320	56,400	2,840	2,040	2,830	75,200
September	1,340	2,520	2,140	5,320	56,800	2,810	2,040	2,830	75,800
October	1,340	2,360	2,140	5,320	59,000	1,410	2,040	2,830	76,400
November	1,340	2,420	2,140	5,320	57,300	1,410	2,040	2,830	74,800
December	1,340	2,550	2,140	5,320	54,500	1,490	2,040	2,830	72,200
Year	16,000	31,200	25,700	63,800	667,000	29,800	24,500	33,900	892,000
2006:									
January	1,340	2,480	2,140	5,320	63,500	1,460	2,040	2,830	81,100
February	1,340	2,390	2,140	5,320	58,300	496	2,040	2,830	74,900
March	1,340	2,430	2,140	5,320	62,700	1,560	2,040	2,830	80,400
April	1,340	2,370	2,140	5,320	60,700	1,060	2,040	2,830	77,800
May	1,340	2,400	2,140	5,320	62,900	1,840	2,040	2,830	80,800
June	1,340	2,370	2,140	5,320	63,200	1,840	2,040	2,830	81,000
January - June	8,010	14,400	12,800	31,900	371,000	8,240	12,200	17,000	476,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Electrolytically refined and fire-refined scrap based on source of material at smelter level.

<sup>3</sup>Monthly data and 2005 cumulative data estimated based on 2004 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2004 data of 3,100 tons per month from new scrap and 2,020 tons per month of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2005: <sup>p</sup>						
January - June	674,000 <sup>r</sup>	843,000 <sup>r</sup>	679,000 <sup>r</sup>	851,000 <sup>r</sup>	XX	XX
June	115,000	145,000	116,000	145,000	50,300	23,100
July	109,000	148,000	113,000	140,000	46,100	31,000
August	123,000	147,000	123,000	152,000	46,200	25,600
September	122,000	155,000	122,000	155,000	45,300	24,800
October	125,000	143,000	124,000	140,000	45,900	26,700
November	118,000	134,000	119,000	136,000	44,900	25,400
December	104,000	131,000	101,000	128,000	47,900	25,100
Year	1,370,000	1,700,000	1,380,000	1,700,000	XX	XX
2006:						
January	112,000	155,000	111,000	148,000	48,800	32,100
February	114,000	125,000	114,000	133,000	48,500	22,000
March	117,000	143,000	118,000	144,000	49,900	21,100
April	115,000	137,000	115,000	139,000	49,100	21,300
May	120,000	145,000	122,000	146,000	47,300	19,800
June	118,000	144,000	117,000	144,000	48,300	20,200
January - June	696,000	849,000	698,000	855,000	XX	XX

<sup>p</sup>Preliminary. <sup>r</sup>Revised. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2005: <sup>p</sup>				
January - June	264,000 <sup>r</sup>	824,000	31,000 <sup>r</sup>	1,120,000
June	46,200	141,000	5,160	192,000
July	42,100	146,000	5,160	193,000
August	45,900	151,000	5,160	202,000
September	45,300	154,000	5,160	204,000
October	46,200	144,000	5,160	195,000
November	42,900	135,000	5,160	183,000
December	41,200	126,000	5,160	173,000
Year	528,000	1,680,000	61,900	2,270,000
2006:				
January	44,300	159,000	5,160	209,000
February	42,600	125,000	5,160	172,000
March	45,000	135,000	5,160	185,000
April	42,800	141,000	5,160	189,000
May:	47,200	143,000	5,160	195,000
June:				
Cathodes	28,200	148,000	954	177,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	2,050	--	2,130	4,180
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	12,900	--	2,080	15,000
Total	43,200	148,000	5,160	197,000
January - June	265,000	851,000	31,000	1,150,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2004 annual data.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with "Billets and other."

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2005: <sup>P</sup>						
January - June	597,000	89,900	445,000	23,900	(35,500)	1,140,000
June	97,000	14,000	64,100	4,270	(11,700)	183,000
July	96,100	14,700	75,500	3,010	(9,110)	192,000
August	98,500	14,400	76,900	2,650	(11,000)	198,000
September	99,100	14,700	79,400	1,800	(10,700)	202,000
October	101,000	13,200	99,100	3,350	(4,470)	214,000
November	104,000	13,100	99,700	1,760	(4,780)	220,000
December	111,000	13,200	102,000	3,020	4,960	218,000
Year	1,210,000	173,000	977,000	39,500	(70,700)	2,390,000
2006:						
January	96,000	13,100	111,000	5,600	16,200	199,000
February	96,900	12,100	108,000	7,320	22,900	187,000
March	114,000	13,300	80,100	6,780	4,100	196,000
April	105,000	12,600	69,100	9,600	(18,500)	196,000
May	107,000	13,400	100,000	6,270	(2,890)	217,000
June	109,000	13,400	NA	NA	(10,700)	NA
January - June	628,000	77,900	NA	NA	11,000	NA

<sup>P</sup>Preliminary. NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2004 data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2005: <sup>P</sup>									
January - June <sup>f</sup>	8,110	16,700	20,100	45,800	421,000	18,000	21,300	19,100	570,000
June	1,350	2,310	3,350	7,640	70,200	2,550	3,550	3,180	94,100
July	1,350	2,640	3,350	7,640	64,300	2,980	3,550	3,180	89,000
August	1,350	2,280	3,350	7,640	71,400	2,980	3,550	3,180	95,700
September	1,350	2,550	3,350	7,640	71,700	2,990	3,550	3,180	96,400
October	1,350	2,380	3,350	7,640	74,100	1,550	3,550	3,180	97,000
November	1,350	2,580	3,350	7,640	71,600	1,530	3,550	3,180	94,700
December	1,350	2,570	3,350	7,640	68,000	1,640	3,550	3,180	91,300
Year	16,200	31,700	40,200	91,700	842,000	31,600	42,600	38,200	1,130,000
2006:									
January	1,350	2,790	3,350	7,640	79,400	1,590	3,550	3,180	103,000
February	1,350	2,670	3,350	7,640	72,900	659	3,550	3,180	95,300
March	1,350	2,670	3,350	7,640	78,500	1,730	3,550	3,180	102,000
April	1,350	2,670	3,350	7,640	75,500	1,070	3,550	3,180	98,300
May	1,350	2,670	3,350	7,640	78,300	1,850	3,550	3,180	102,000
June	1,350	2,670	3,350	7,640	79,100	1,850	3,550	3,180	103,000
January - June	8,110	16,100	20,100	45,800	464,000	8,760	21,300	19,100	603,000

<sup>P</sup>Preliminary. <sup>f</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Monthly data and 2005 cumulative data estimated from 2004 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1,2</sup>

(Metric tons, gross weight)

Scrap type and processor	2005 <sup>p</sup>		2006			
	January - June	Year	April	May	June	January - June
No. 1 wire and heavy:						
Smelters and refiners	29,300 <sup>r</sup>	58,900	5,240	5,240	5,240	31,500
Brass and wire-rod mills	189,000	382,000	34,900	36,600	35,900	211,000
No. 2 mixed heavy and light:						
Smelters and refiners	13,600 <sup>r</sup>	25,200	1,520	1,550	1,520	9,340
Brass and wire-rod mills	2,770	5,260	1,260	1,420	1,400	6,790
Total unalloyed scrap:						
Smelters and refiners	42,900 <sup>r</sup>	84,100	6,760	6,790	6,760	40,800
Brass and wire-rod mills	191,000 <sup>r</sup>	387,000	36,100	38,000	37,300	218,000
Red brass: <sup>3</sup>						
All plants	19,600 <sup>r</sup>	40,700	3,440	3,220	3,310	20,200
Leaded yellow brass:						
All plants	96,900 <sup>r</sup>	191,000	15,500	15,500	17,300	98,400
Yellow and low brass:						
All plants	89,800 <sup>r</sup>	175,000	15,000	16,100	15,600	92,900
Cartridge cases and brass:						
All plants	48,200 <sup>r</sup>	94,500	7,710	8,420	7,860	48,700
Auto radiators:						
Smelters and refiners	12,500 <sup>r</sup>	25,000	2,080	2,080	2,080	12,500
Bronzes:						
Smelters and refiners	5,550 <sup>r</sup>	11,100	925	925	925	5,550
Brass mills	2,780	5,790	483	490	788	3,720
Nickel-copper alloys:						
All plants	9,680 <sup>r</sup>	18,200	1,600	1,720	1,940	10,100
Low grade and residues:						
Smelters and refiners	17,600 <sup>r</sup>	35,300	2,940	2,940	2,940	17,600
Other alloy scrap: <sup>4</sup>						
Smelters and refiners	564 <sup>r</sup>	1,130	94	94	94	564
Brass mills	3,000 <sup>r</sup>	6,000	500	500	500	3,000
Total alloyed scrap:						
Smelters and refiners	57,500 <sup>r</sup>	115,000	9,590	9,590	9,590	57,500
Brass mills	249,000 <sup>r</sup>	488,000	40,600	42,400	43,800	256,000
Total scrap:						
Smelters and refiners	100,000 <sup>r</sup>	199,000	16,400	16,400	16,300	98,300
Brass and wire-rod mills	440,000	876,000	76,800	80,400	81,100	474,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 6,728 tons of scrap per month based on 2004 annual data; monthly data include estimates of about 10,984 tons of scrap per month consumed by ingot makers.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Includes composition turnings, silicon bronze, zinc bronze, railroad car boxes, cocks and faucets, gilding metal, and commercial bronze.

<sup>4</sup>Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper						Total refined
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex <sup>5</sup>	LME <sup>6</sup>	
2005: <sup>p</sup>								
June	45,200	5,800	32,600	20,600	5,750	13,900	22,400	101,000
July	33,300	8,330	29,800	19,900	5,750	9,970	18,200	91,900
August	43,800	5,540	28,600	20,700	5,750	8,420	11,900	80,900
September	54,800	5,950	20,700	20,800	5,750	6,910	10,000	70,200
October	50,900	6,640	17,200	21,900	5,750	3,350	10,800	65,700
November	42,900	6,210	18,400	23,400	5,750	3,340	3,830	60,900
December	44,300	8,190	20,400	24,500	5,750	6,180	800	65,900
2006:								
January	17,300	11,200	26,800	27,800	5,750	10,600	25	82,100
February	21,700	14,500	28,600	29,900	5,750	27,600	--	106,000
March	15,200	13,300	27,700	28,100	5,750	32,000	1,880	109,000
April	18,800	7,690	28,400	31,700	5,750	15,500	1,080	90,200
May	40,600	9,960	30,300	31,400	5,750	9,540	350	87,300
June	13,500	6,210	24,400	32,100	5,750	7,900	225	76,600

<sup>p</sup>Preliminary. -- Zero

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Copper content of blister and other materials in transit and in process of refining.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on reported and 2004 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>Commodity Exchange Inc., New York.

<sup>6</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES  
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2005:			
June	167.452	162.186	159.807
July	168.484	163.218	163.909
August	176.905	171.639	172.230
September	180.623	175.350	174.959
October	195.568	190.302	184.119
November	206.396	201.130	193.622
December	222.511	217.245	207.569
Year	173.493	168.227	166.837
2006:			
January	224.000	218.258	214.716
February	230.905	225.079	225.965
March	238.235	232.409	231.438
April	302.679	296.853	289.673
May	381.687	375.861	364.874
June	345.474	339.648	326.400
January - June	287.163	281.351	275.511

<sup>1</sup>Listed as "U.S. producer cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Sources: Platts Metals Week and American Metal Market.



TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 Scrap	Red brass turnings and borings
2005:				
June	137.23	124.82	93.09	59.09
July	153.40	141.60	99.00	65.00
August	142.26	126.52	99.00	65.00
September	142.86	128.38	99.00	65.00
October	176.90	162.95	99.00	65.00
November	183.70	168.10	99.00	65.00
December	201.59	179.59	117.91	74.07
Year	153.46	137.28	95.92	61.10
2006:				
January	208.32	188.91	125.00	82.50
February	221.85	206.90	125.00	82.50
March	229.26	225.24	170.00	77.50
April	283.85	257.95	170.00	77.50
May	355.17	322.74	170.00	77.50
June	310.98	279.19	192.62	121.10
January - June	268.24	246.82	158.77	86.43

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2006			2006			2006			2006		
	2005	May	January - May	2005	May	January - May	2005	May	January - May	2005	May	January - May
Austria	--	--	--	--	--	--	--	--	--	3,360	--	1,510
Brazil	--	--	--	--	--	--	10	--	--	30,500	2,010	11,600
Canada	2	2	191	138	12	164	86,500	1,770	33,800	296,000	21,400	108,000
Chile	--	--	--	--	--	--	41,700	6,900	24,000	429,000	47,200	219,000
Finland	--	--	--	--	--	--	65	116	527	2,910	--	--
Germany	--	--	--	--	--	--	12	--	--	24,900	4,160	14,100
Japan	--	--	--	--	--	--	(2)	--	--	5,340	633	2,780
Kazakhstan	--	--	--	--	--	--	--	--	--	6,300	--	22,200
Mexico	221	--	--	37	--	17	3,870	202	1,010	28,900	3,620	11,000
Peru	--	--	--	--	--	--	--	--	--	154,000	20,900	72,100
Taiwan	--	--	--	1,180	103	466	--	--	--	--	--	--
Other	--	--	1	287	46	77	16	--	1	23,200	140	7,150
Total	223	2	192	1,640	161	724	132,000	8,990	59,300	1,000,000	100,000	469,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2006			2006			2006			2006		
	January -			January -			January -			January -		
	2005	May	May	2005	May	May	2005	May	May	2005	May	May
Australia	--	--	--	11	--	1,840	43	--	27	67	--	64
Belgium	41	--	--	37	25	74	724	48	359	49	--	--
Canada	18,300	1,540	11,300	30,900	7,990	33,300	20,500	16	2,810	2,070	4,540	25,300
China	75,700	6,400	58,200	9,650	692	3,510	343	--	120	19,000	1,110	4,700
Costa Rica	3	--	--	(2)	7	7	1	--	--	2	--	(2)
Germany	--	--	--	93	--	--	779	75	357	182	4	9
Hong Kong	2	--	--	1	2	2	3,190	744	1,920	7	14	22
India	149	--	2	1	--	3	58	26	72	6,650	275	1,920
Japan	28,700	11,200	22,200	70	--	--	2,230	--	434	5	--	(2)
Korea, Republic of	1	--	--	32	--	11	464	266	485	132	--	41
Mexico	6,380	3,460	6,910	682	38	57	2,660	1	241	9,860	28	2,610
Saudi Arabia	--	--	--	--	--	--	11	--	--	11	60	93
Singapore	19	--	--	20	1	25	491	60	260	13	--	--
Spain	1,730	--	128	--	--	--	203	1	100	--	--	18
Sweden	--	--	--	--	--	--	3,190	694	1,340	--	--	2
Taiwan	15	--	--	14	--	3	1,680	207	726	180	--	188
Other	5,600	79	132	338	209	547	4,950	383	1,180	1,300	242	586
Total	137,000	22,700	98,900	41,800	8,960	39,400	41,600	2,520	10,400	39,500	6,270	35,600

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. COPPER SCRAP IMPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2006			2006		
	2005	May	January - May	2005	May	January - May
Brazil	--	--	--	276	--	98
Canada	9,080	460	2,650	47,700	4,590	20,300
China	--	--	--	120	65	256
Costa Rica	2,020	161	684	495	121	411
Germany	85	--	25	76	(2)	1
Guatemala	79	16	64	1,500	214	832
Honduras	1,910	174	977	651	85	330
Jamaica	269	18	153	125	9	36
Japan	70	15	57	135	2	27
Mexico	13,300	458	3,060	24,800	2,720	11,300
Nicaragua	831	83	350	573	42	192
Russia	--	--	--	--	--	101
Singapore	--	--	--	102	(2)	100
Taiwan	2	--	--	348	30	144
United Kingdom	258	18	77	925	37	225
Other	2,150	1,050	1,350	5,850	534	1,670
Total	30,100	2,460	9,450	83,700	8,450	36,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 17  
U.S. COPPER SCRAP EXPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2006							2006				
	No. 1		No. 2		Other			Segregated		Unsegregated		
	2005	January - May	2005	January - May	2005	January - May	2005	2005	January - May	2005	January - May	2005
Belgium	644	39	156	18	18	214	623	6,890	87	573	1,100	4,390
Canada	27,900	--	--	--	--	7,000	22,700	13,900	1,690	5,980	3,190	9,170
China	265,000	2,180	13,500	12,300	50,800	5,020	23,900	182,000	10,200	48,500	11,000	40,900
Germany	10,600	316	1,130	77	272	721	2,420	9,990	904	1,680	1,580	4,440
Hong Kong	9,200	--	77	172	870	19	275	12,800	48	479	962	4,300
India	4,460	--	201	--	--	251	627	15,800	959	5,630	35	244
Japan	6,710	38	334	18	39	667	1,770	7,950	646	2,550	135	447
Korea, Republic of	27,200	1,260	4,290	301	1,990	1,200	3,460	10,200	1,150	4,660	26	28
Mexico	1,010	39	96	--	--	--	21	1,570	58	331	917	2,780
Spain	145	--	5	--	--	--	2	5,580	22	22	925	3,680
Taiwan	11,600	74	640	224	1,330	112	1,120	10,600	1,100	3,570	18	42
Thailand	874	--	--	--	--	--	98	475	23	205	--	--
United Kingdom	276	--	1	--	--	17	80	3,440	18	94	--	--
Other	1,120	151	348	--	38	36	986	10,200	126	1,170	714	3,680
Total	366,000	4,090	20,800	13,100	55,300	15,200	58,100	291,000	17,000	75,500	20,600	74,100

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.